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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/719,320	11/21/2003	Kenneth James Kozak	100736/0504851	3081
	590 10/20/2004		EXAM	INER
FROST BROV	WN TODD, LLC ITER		PORTNER, VIR	GINIA ALLEN
201 E. FIFTH S			ART UNIT	PAPER NUMBER
CINCINNATI, OH 45202			1645	
			DATE MAN ED 10/00/000	

DATE MAILED: 10/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

•	4	Application No.	Applicant(s)
Office Action Summary		10/719,320	KOZAK, KENNETH JAMES
		Examiner	Art Unit
		Ginny Portner	1645
Period f	The MAILING DATE of this communication app or Reply	pears on the cover sheet with	the correspondence address
A SH THE - Exte after - If th - If No - Failt Any	MAILING DATE OF THIS COMMUNICATION.  ensions of time may be available under the provisions of 37 CFR 1.13  r SIX (6) MONTHS from the mailing date of this communication.  e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we ure to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTH:	y be timely filed i0) days will be considered timely. S from the mailing date of this communication
Status			
1)⊠	Responsive to communication(s) filed on 16 Ja	nuary 2004.	
	<del></del> .	action is non-final.	
3)	Since this application is in condition for allowan	ce except for formal matters	, prosecution as to the merits is
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.
Disposit	ion of Claims		
4) 🖾	Claim(s) <u>1-16</u> is/are pending in the application.		
	4a) Of the above claim(s) is/are withdraw		
5)[	Claim(s) is/are allowed.	m morn consideration,	
	Claim(s) 1-16 is/are rejected.		
	Claim(s) 1 is/are objected to.		
	Claim(s) are subject to restriction and/or	election requirement	
	on Papers	, and the quite of the contents	
10)□.	The specification is objected to by the Examiner.	enteral control (Control on the Control on the Cont	, <u> </u>
. 5/1	The drawing(s) filed on is/are: a) acce	pred or b) objected to by t	he Examiner.
	Applicant may not request that any objection to the di	rawing(s) be held in abeyance.	See 37 CFR 1.85(a).
11)[7] -	Replacement drawing sheet(s) including the correction	on is required if the drawing(s) is	s objected to. See 37 CFR 1.121(d).
	The oath or declaration is objected to by the Exa	ımıner. Note the attached Of	fice Action or form PTO-152.
Priority u	nder 35 U.S.C. § 119		
12) 🗌 🖟	Acknowledgment is made of a claim for foreign p	priority under 35 U.S.C. § 119	9(a)-(d) or (f).
a)[	」All b)L Some * c)  None of:		· / \-/ v//
	1. Certified copies of the priority documents	have been received.	
;	2. Certified copies of the priority documents	have been received in Applic	cation No.
;	<ol><li>Copies of the certified copies of the priorit</li></ol>	y documents have been rece	eived in this National Stage
	application from the International Bureau (	(PCT Rule 17.2(a)).	
* S	ee the attached detailed Office action for a list of	the certified copies not rece	ived.
ttachment(	s)		
) Notice	of References Cited (PTO-892)	4) Interview Summ	ary (PTO-413)
)  Notice	of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mai	l Date
Paper	ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	5)   Notice of Informa	al Patent Application (PTO-152)
Patent and Trac TOL-326 (Rev	demark Office	6) Other:	Port of Daniel Visit Visit

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## **DETAILED ACTION**

Claims 1-16 are pending.

## Claim Objections

- Claim 1, 7 is objected to because of the following informalities: 1.
- Claim 1 is number 1 and a mixture of letters (a) and numbers (1-4) are used in the 2. subparagraphs following the preamble. It is confusing to see the combination of letters and numbers as it is not clear how each type designator is intended to correspond to the other.
- Claims 4 and 7 recite the same claim limitations and both depend from claim 1; claim 7 is 3. duplicative of claim 4 and is not further limiting of the claimed invention.
- 4. Appropriate correction is required.

## Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the

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reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)) as evidenced by US Pat. 6,793,958.

lo/2004

6. Claims 1-16 are rejected under 35 U.S.C. 102(e, effective filing date October 29, 1998) as being anticipated by Reiter et al (US 2004/0023316 A1).

Reiter et al disclose the instantly claimed invention directed to a method of detecting Helicobacter pylori antigen (see pages 1 and 3, respectively, [0003], and [0020]) in a human fecal specimen (see title "stool", and page 4, [0038] "especially of human patients") the method comprising the steps of:

- 1) dispersing human fecal specimen in a protein based diluent ("skim milk" see page 13, paragraph [154] which contains casein (see US Pat. 6,793958, Brief Summary paragraph 19, ""instead of casein protein, it is possible to use skimmed milk protein"; Detailed Description test paragraph 4 "casein utilized in the present invention is preferably added as skimmed milk powder");
- 2) contacting the fecal specimen in the diluent with an antibody to form a complex (see page 13, [0154 "ELISA plates were coated for 1 hour at 370 in 100 ul of an mAK solution (2.5 ug antibody/ml carbonate buffer, 0.1M, pH 9.5)"; a plurality of monoclonal antibodies were used, see Table 4, page 13; page 14, [0159 "combination" of monoclonal antibodies]);
- 3) exposing the complex to a second antibody that is labeled (see page 13, paragraph [0154, column 2, and Table 4]);

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4) detecting (streptavidin with POD, produces a blue colored product) the amount of the labeled antibody (biotin labeled) in the complex and in turn determining the presence of H.pylori antigen in the fecal specimen (see page 13, Table 4).

Both the first and second monoclonal antibodies specific were genus specific antibodies, the epitopes to which they bound shown in Table 2, page 12, paragraph [0144]. The urease B subunit epitope (VGEVITR, amino acid sequence for epitope) is present in Helicobacter pylori, H.heilmannii, H. felis, H. hepaticus, H.bizzozeronii, Helicobacter sp. TD1 and Campylobacter pylori (see Swiss-Prot Blast search alignments provided as evidence of the epitope binding specificity for the monoclonal antibodies to be genus specific). Additionally, a second monoclonal that is a genus specific monoclonal with binding specificity for the alpha subunit of Helicobacter pylori (LPLGRNA, amino acid sequence of epitope), would also immunoreact with this epitope that is present in H. hepaticus and Campylobacter jejuni (see Swiss-Prot Blast search alignments provided as evidence of the epitope binding specificity for the monoclonal antibodies to be genus specific).

Washes were carried out between steps (see page 11, [0142].

(Instant claims 13 and 16) Kits (see [0098] and claims 51-53) that comprise a plurality of monoclonal antibodies, diluents, solid support (see page 8, [0092-0093; 0075]devices, the solid support being defined to include microtiter plates, particles, gold colloidal particles, latex, test strips, to name a few.

The reference inherently anticipates the instantly claimed invention.

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7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ginny Portner whose telephone number is (571) 272-0862. The

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examiner can normally be reached on 7:30-5:00 M-F, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Lynette Smith can be reached on (571) 272-0864. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vgp

October 14, 2004

LYNETTE R. F. SMITH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600